

Fanshawe College

FIRST: Fanshawe Innovation, Research, Scholarship, Teaching

Documentation (Approvals etc...)

BIM and Integrated Practice

2018

BIM2 Curriculum Modification for 2019-20

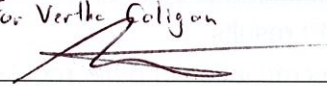
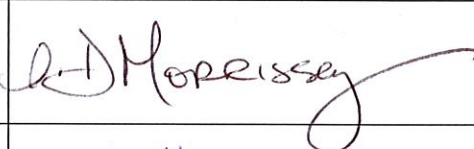
Fanshawe College

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CURRICULUM MODIFICATION REQUEST FORM

COURSE OR PROGRAM CURRICULUM "RATIONALE FOR CHANGE"

Program Requiring Changes

Program Title: BIM and Integrated Practice – Post Graduate Certificate Program		
Program Number: BIM2	Date Submitted: 11/30/2018	
Dean responsible for program: V. Coligan	Chair: Steve Crema	
Credential Provided: <input type="checkbox"/> Declaration of Academic Achievement <input type="checkbox"/> Local Certificate <input type="checkbox"/> Ontario College Certificate <input type="checkbox"/> Diploma <input type="checkbox"/> Advanced Diploma <input checked="" type="checkbox"/> Grad Certificate <input type="checkbox"/> Degree <input type="checkbox"/> Apprenticeship		
Program Intakes: <input checked="" type="checkbox"/> F <input checked="" type="checkbox"/> W <input type="checkbox"/> S Other:	Catalogue Year(s) Impacted: 2019/20	
Residency Requirement: <input checked="" type="checkbox"/> Met or <input type="checkbox"/> Not Met	Date of Last Program Review: Click here to enter a date.	
<i>I have read the reasons for the change and...</i>		<i>Signature and date</i>
Dean of Faculty (Lead program):	<input checked="" type="checkbox"/> Approve <input type="checkbox"/> Do Not Approve	For Verthe Coligan  Nov 27/18
Dean of Faculty (Affiliate program-impacted by change):	<input type="checkbox"/> Approve <input type="checkbox"/> Do Not Approve	
Dean of Faculty (Affiliate program-impacted by change):	<input type="checkbox"/> Approve <input type="checkbox"/> Do Not Approve	
Senior Vice President Academic (required for major changes and late DAs):	<input type="checkbox"/> Approve <input type="checkbox"/> Do Not Approve	
Director, Centre for Academic Excellence:	<input checked="" type="checkbox"/> Supports <input type="checkbox"/> Does Not Support	
Office of the Registrar:	<input checked="" type="checkbox"/> Supports <input type="checkbox"/> Does Not Support	Amber Hawood. Nov. 29/18
Notes: <i>mapping missing - contact Chair Elizabeth to contact J. Ostrum.</i>		

Please answer each of the questions below, if applicable. Missing or incomplete information may delay review of the proposed changes.

1.0 Describe proposed change(s). Complete Appendix A (if necessary) and amend SDAR (Refer to Appendix C).

Modify / realign both weekly and course hours in Level 2 of the BIM2 Post Graduate Certificate Program. These hours will allow for the development of new and innovative curriculum in the areas of BIM and Integrated Practice to match industry trends in the AECCO sector. The Changes are outlined in Appendix A.

2.0 Reason/Rationale for Changes

2.1 The reason for the change is based on:

- ☐ A recent program review
- ☐ Program Advisory Committee feedback
- ☒ Student feedback
- ☐ KPI results
- ☐ Accreditation or other regulatory requirements
- ☐ Shared curriculum
- ☒ Trends in the field/industry
- ☐ Other (please describe):

2.2 Does the change support the College's Strategic Framework (mission, vision, values)?

- ☒ Yes
- ☐ No (If no, please explain)

2.3 What strategic goal(s) does the proposed change support?

- ☒ Goal 1 - Enhance innovative practices for exceptional student learning
- ☐ Goal 2 - Manage enrolment growth
- ☒ Goal 3 - Optimize use of resources
- ☒ Goal 4 - Build sustainable sources of alternative revenue

3.0 Students

3.1 Will the change affect the cost of the program for students?

- ☐ Yes
- ☒ No

3.2 If yes, there will be an additional cost for:

- ☐ Materials (Include details):
- ☐ Equipment (Include details):
- ☐ Other (Please describe):

4.0 Program Learning Outcomes

4.1 Will the proposed change meet the Program Vocational Learning Outcomes? (Complete Appendix B and mark the changes in the mapping [e.g. red font])

- ☐ Yes
- ☒ No

4.2 Are there any implications related to progression because of pre-requisite courses (and/or co-requisite courses)?

- ☒ No
- ☐ Yes (If yes, please explain)

5.0 Relationships with Other Programs

5.1 Are any of the courses impacted by the change provided by another School (e.g., SLLS, LKSB) and/or delivered at another campus?

- ☒ No
- ☐ Yes

5.2 What Schools/Campuses will be impacted by the proposed change?

- ☐ Lawrence Kinlin School of Business
- ☐ School of Information Technology
- ☐ School of Tourism, Hospitality and Culinary Arts
- ☐ School of Community Studies
- ☐ School of Health Sciences
- ☐ School of Nursing
- ☐ School of Public Safety
- ☐ School of Contemporary Media
- ☐ School of Design
- ☐ School Digital and Performing Arts
- ☐ School of Language and Liberal Studies
- ☐ Donald J. Smith School of Building Technology
- ☐ Norton Wolf School of Aviation Technology
- ☐ School of Applied Sciences and Technology
- ☐ School of Transportation Technology and Apprenticeship
- ☐ Continuing Education
- ☐ Simcoe/Norfolk Regional Campus

- ☐ St Thomas/Elgin Regional Campus
- ☐ Woodstock/Oxford Regional Campus
- ☐ Huron/Bruce Regional Sites

5.3 Will the change affect pathway agreements (e.g., bridging, articulations, laddering, advanced standing) with other Fanshawe program(s) and/or other institution(s)?
(Refer to the pathway agreements listed here: <http://transferagreements.fanshawec.ca/>)

- ☒ No
- ☐ Yes (If yes, indicate when you will notify the other Fanshawe program(s) and/or other institution(s) and the Pathways Coordinator in the Centre for Academic Excellence of the change)

5.4 If this program is a Co-Operative Education program, will the proposed change impact Co-op?

- ☒ No
- ☐ Yes (If yes, consult with the Co-op office prior to submission)

6.0 Resource Implications of Proposed Changes

6.1 Will the proposed change have staffing implications?

- ☐ No
- ☒ Yes (If yes, please explain)

6.2 Will the proposed change impact any of the Enabling areas?

- ☒ No
- ☐ Yes (If yes, please explain)

6.3 Will the proposed change affect space and/or technology requirements?

- ☐ No
- ☒ Yes (If yes, please explain)

7.0 General College Requirements

7.1 Are changes consistent with Colleges policies?

- ☒ Yes
- ☐ No (If no, please explain)

7.2 Will the program meet the General Education requirements (Policy A126) as listed below?

- ☐ No
- ☒ Yes

Local Certificate, Ontario College Certificate and Graduate Certificate - none required)	Diploma - 3 required (minimum of 1 must be an elective)	Advanced Diploma - 4 required (minimum of 2 must be electives)
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7.3 Will the program have 25% distinct curriculum to meet the Residency Requirement of 25% credit units? Consider all pathway agreements (e.g., bridging, internal articulations, laddering, advanced standing) with other Fanshawe programs and/or other institutions.

- ☐ No
☒ Yes

Note: In accordance with POLICY NUMBER: A122 Graduation from Approved College Programs

...to be eligible for any College Credential a student must be enrolled and complete at least 25% of that program's credit units at Fanshawe College, unless stipulated differently by other approving bodies such as the Postsecondary Education Quality Assessment Board (PEQAB).

7.4 Indicate:

- i) Total program hours before proposed change: 600
ii) Total program hours after proposed change: 600
iii) Level(s) in which the proposed change(s) occurs: 1/2

7.4.1 Are the total program hours consistent with the requirements as listed below?

- ☒ Yes
☐ No (If no, please explain)

Local Certificate - 300 hours	Ontario College Certificate - 600 hours
Diploma - 1200 to 1400 hours	Advanced Diploma - 1800 to 2100 hours
Graduate Certificate - 600 hours	

See SDAR

Supplement to **CURRICULUM MODIFICATION REQUEST FORM**

Appendix "A"

Date: 30.11.2018

PROGRAM CHANGES TO BIM2 – 15 WEEK PROGRAM

Level	Current:	Proposed:	Current:	Proposed :	Current:		Proposed Change:		Delivery / Comment(s):
	Course Code:	New Course Code:	Course Name"	Course Name:	Hours Per Week	Total Hours Term	Hours Per Week:	Total Hours Term:	
1	CADD-6001	FBIM-6001 <i>BIMM6001</i>	BIM Technology I	---	8.0	120	---	---	3+3+2
	COMM-6019	---	---	---	3.0	45	---	---	Hybrid (2+1)
	COMP-6046	FBIM-6046 <i>BIMM6002</i>	BIM Software Integration	---	4.0	60	---	---	2+2
	MGMT-6099	---	BIM Management 1	---	3.0	45	---	---	Hybrid (2+1)
	MGMT-6100	---	Integrated Practice for AEC Sector	---	2.0	30	---	---	Online (2)
Total(s):					20.0	300	---	---	
2	BUSI-6008	FBIM-6008 <i>BIM 6003</i>	Practical Implementation of BIM	---	3.0	45	2.0	30	Online (2)
	CADD-6002	FBIM-6002 <i>BIMM6004</i>	Computer Imaging for Construction	Digital Presentations in Construction	2.0	30	3.0	45	Hybrid (2+1)
	ENGR-6001 <i>BIM 6005</i>	BIM-6001 <i>BIM 6005</i>	Building Energy Modelling	BIM Systems; Energy and Analysis	4.0	60	3.0	45	2+2
	INDS-6001	FBIM-6999 <i>BIM 6005</i>	BIM Integrated Project – Capstone	Integrated BIM – Capstone	8.0	120	9.0	135	IH:(3+3)+2+1
	MGMT-6101	FBIM-6101 <i>BIM 6005</i>	BIM Management 2	---	3.0	45	3.0	45	Hybrid (2+1)
Total(s):					20.0	300	20.0	300	

Proposal Rationale:

- Increase the online capacity of the program to allow for greater student flexibility and enrollment;
- Introduce an appropriate Course Code Acronym that is true to industry (**BIM is not CADD!**), The **FBIM** would become "**branding**" and an acronym for "**FanshaweBuildingInformationModelling**" as in "**Do you FBIM?**"
- Allow for increased hours in the **Capstone** to boost team collaboration; innovation; delivery and student performance – Investigate overlap to other programs?;
- Re-title a number of courses to cover emerging and future BIM trends and descriptions;
- Allow for increase hours to deliver new curriculum in the digital representation areas – "V/R; A/R and 3D Reality Capture; 4D-5D-6D Simulation" with the procurement of appropriate equipment; facilities and resources.

COMMS - Vocational Learning Outcomes by Program, Level and Course

Program Name: BIM and Integrated Practice

Program Code: BIM2 (BIM2-BLD-20189)

Academic Year: 2018-2019

Date Generated: 2/5/2019 11:59:31 AM

Only Display Core Courses: ☒

Level 1							
Course Number	Course Name	1	2	3	4	5	6
CADD-6001 BIMM-6001	BIM Technology 1	I	IB	IB	I	IB	IB
COMM-6019	Adv. Professional Comm'n						
COMP-6046 BIMM-6002	BIM Software Integration	I	B	IB	I	IBC	IB
MGMT-6099	BIM Management 1	IB	IB	I	I	I	IB
MGMT-6100	Int. Practice for AEC Sector	IB	IB	IC	IB		
Level 2							
Course Number	Course Name	1	2	3	4	5	6
BUSI-6008 BIMM-6003	Practical Implementation-BIM	C	BC	B	C		
CADD-6002 BIMM-6004	Comp Imaging for Construction			IB		IBC	IB

ENGR 1003

ENGR-6001 BIMM-6006	Building Energy Modelling			IBC		BC	IBC
INDS-6001 BIMM-6005	BIM Technology 2-Capstone	BC	BC	BC	BC	BC	BC
MGMT-6101	BIM Management 2	BC	BC	BC	BC		

Vocational Learning Outcomes

1	Develop an implementation plan for Building Information Modelling (BIM) and Integrated Project Delivery (IPD) in the Architecture, Engineering, and/or Construction industries.
2	Formulate strategies for leadership and personnel management, and apply team building skills in an interdisciplinary setting to develop collaborative design and construction solutions.
3	Analyze BIM processes and execute appropriate BIM management techniques to facilitate Integrated Project Delivery from project conceptualization to facilities management.
4	Conduct project risk analysis using BIM and IPD processes to optimize project outcomes for all stakeholders.
5	Deploy BIM computer platforms to create virtual building information models and generate presentation elements.
6	Integrate various suites of BIM applications into project design, construction, and facilities management to improve the transfer of information between different disciplines and during all phases of a building's life cycle.

Legend

I	Introductory
B	Building
C	Culminating

Degree Audit Report

Catalog: 2019/2020

Program: BIM2
Department: BLD - Building Technology
Academic Level: PS
CCD: 7 - 2AcadSem/600-700 hrs
Credential: Ontario College Graduate Cert

Name: BIM and Integrated Practice

Grade Scheme: LG2
Major: BIM2 - BIM & Integrated Practice
Co-Op Indicator: N/A

Div: BLD - Building Technology Division

Academic Program Requirement

Total Credits: 26.50
GPA Requirement: 2.00
Minimum Grade: D

Residency Reqmt: 7.00
Residency Reqmt GPA: 2.00

Academic Requirement: BIM2.19 BIM & Integrated Practice

Major: BIM2
Grade Scheme: LG2
Minimum GPA: 2.00
Minimum Grade:

Subrequirement: Level 1

Take all of the following Mandatory Courses:

		Total Hours	Total Credits	GE
BIMM-6001	CADD-6001	120.00	4.00	
BIMM-6002	COMP-6046	60.00	2.00	
	MGMT-6099	45.00	1.50	
	COMM-6019	45.00	3.00	
	MGMT-6100	30.00	2.00	
	BIM Technology 1			
	BIM Software Integration			
	BIM Management 1			
	Advanced Professional Communication			
	Integrated Practice for AEC Sector			

Subrequirement: Level 2

Take all of the following Mandatory Courses:

		Total Hours	Total Credits	GE
BIMM-6003	INDS-6001	135	5.00	9
ENGR-6003	ENGR-6001	45	3.00	3
	MGMT-6101	45.00	2.00	
BIMM-6003	BUSI-6008	30	3.00	2
BIMM-6004	CADD-6002	45	3.00	3
	BIM Technology 2-Capstone			
	Building Energy Modelling			
	BIM Management 2			
	Practical Implementation of BIM			
	Computer Imaging for Construction			


Subrequirement: Program Residency

Students Must Complete a Minimum of 7 credits in this Program at Fanshawe College to meet the Program Residency requirement and Graduate from this Program.

Approved By Chair/Manager:

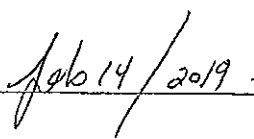
Department and Date:

BLD - Feb 14/19



Approved by Dean:

Degree Audit Report



Date:

General Education Approved By(as appropriate):

Date: